

## T4 RNA Ligase Reaction Buffer



1-800-632-7799  
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B0216S 005121115111

# B0216S

**3.0 ml**      **Lot: 0051211**      **Exp: 11/15**  
**10X Concentration**      **Store at -20°C**

**Description:** New England Biolabs supplies a 10X reaction buffer with all of its enzymes. At a 1X concentration this reaction buffer assures optimal activity of the enzyme.

### 1X T4 RNA Ligase Reaction Buffer:

50 mM Tris-HCl  
10 mM MgCl<sub>2</sub>  
1 mM DTT  
pH 7.5 @ 25°C

### Reagents Supplied with Buffer:

10 mM ATP  
50% PEG8000

### Quality Control Assays

**16-Hour Incubation:** 1 µg of HaeIII digested φX174 RF I DNA in 50 µl of this reaction buffer at 1X concentration showed no detectable non-specific nuclease degradation after incubation at 37°C for 16 hours.

**Endonuclease Activity:** Incubation of this reaction buffer at a 1X concentration with 1 µg φX174 RF I DNA for 4 hours at 37°C in a 50 µl reaction resulted in less than 5% conversion to RF II.

**RNase Activity:** Incubation of 40 ng of RNA transcripts in 50 µl of this reaction buffer at a 1X concentration for 2 hours at 37°C resulted in no detectable degradation of the RNA as determined by gel electrophoresis.

CERTIFICATE OF ANALYSIS

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